

# *Command Core System*

## *Info Briefing*

*Lt Col Alan Dooley*  
*HQ ACC/SGOP*  
*AF Command Core Champion*

23 Mar 01

# *Outline*

- ◆ Force Health Protection IM/IT
  - ◆ Garrison vs Theater
- ◆ Command Core Status
- ◆ Activity Based Operational Risk Management
- ◆ Electronic Casefile
  - ◆ Demo
- ◆ Summary

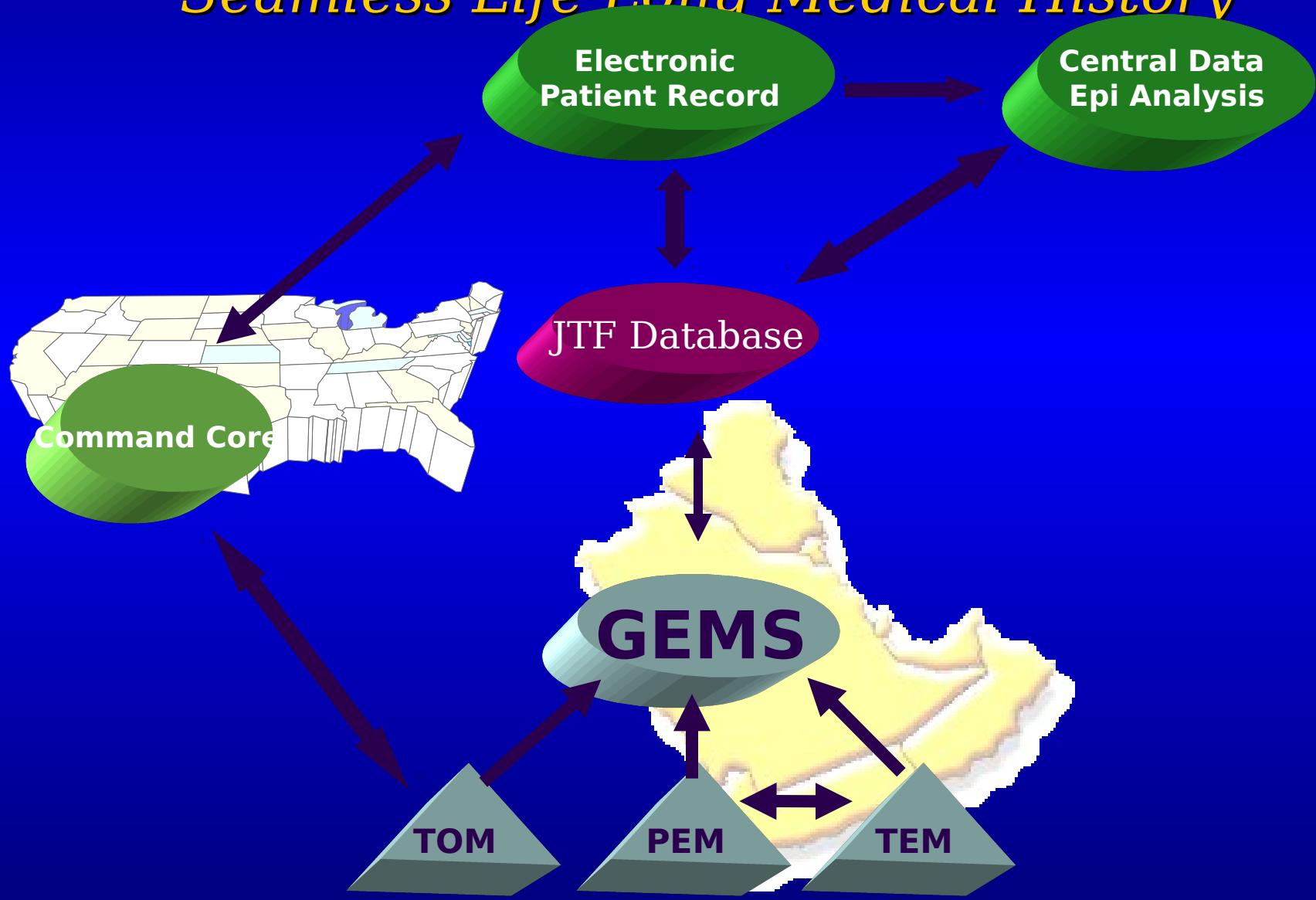
# *AF Team Aerospace Applications*

	Clinical	IH	Env Health
Garrison	CHCS II	DORHS (CCS)	DORHS-? CCS
Theater (Level 3-4)	TMIP (CHCS II)	TMIP (CCS)	DORHS-? CCS
Theater (Level 1-2)	GEMS (PEM)	GEMS (TOM)	GEMS (TOM)

# *Full Spectrum TA TM*

## *Concept*

*Seamless Life Long Medical History*



# *AF Team Aerospace Applications*

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# *GEMS:* *Ultra-light Expeditionary* *IM/IT*

- ◆ Deployed Care
- ◆ Command/Control
- ◆ Epidemiological Warning
- ◆ Info Reach Back
- ◆ Environmental Surveillance



***GEMS scales Medical Force Protection  
to the deployed laptop/handheld  
platform***

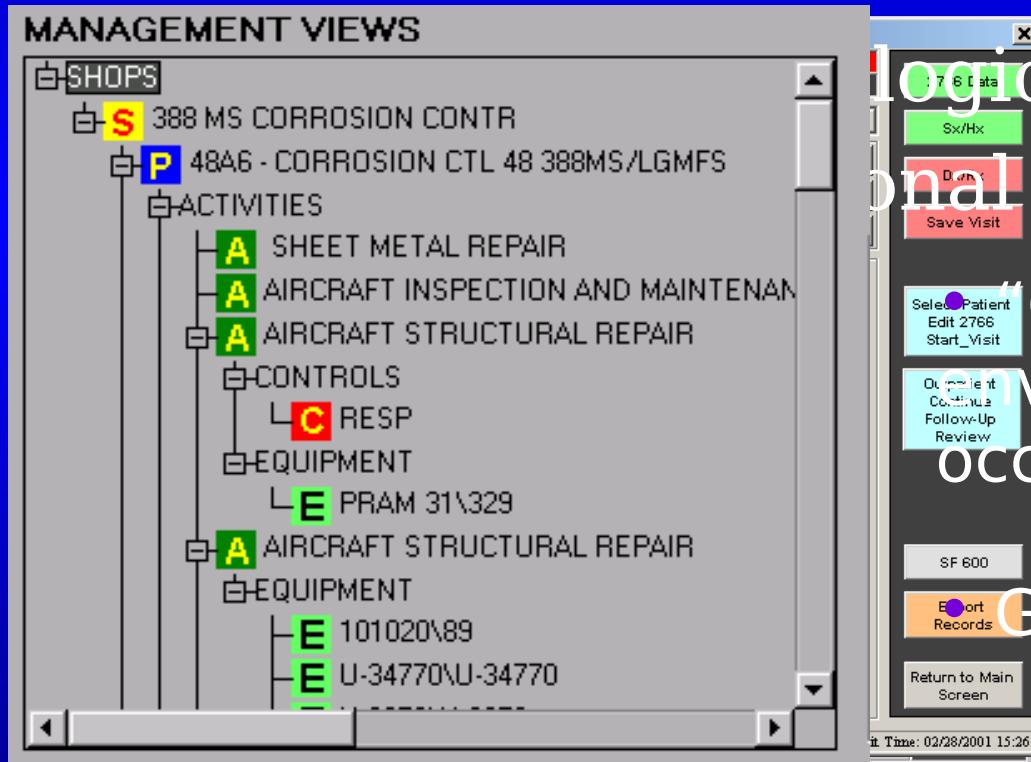
# Target Use: Air Expeditionary Forces

- Advanced Medical Teams
- Squadron Medical Elements
- Remote Clinics

*“Standardized deployed  
Medical IM/IT enabling  
global surveillance”*

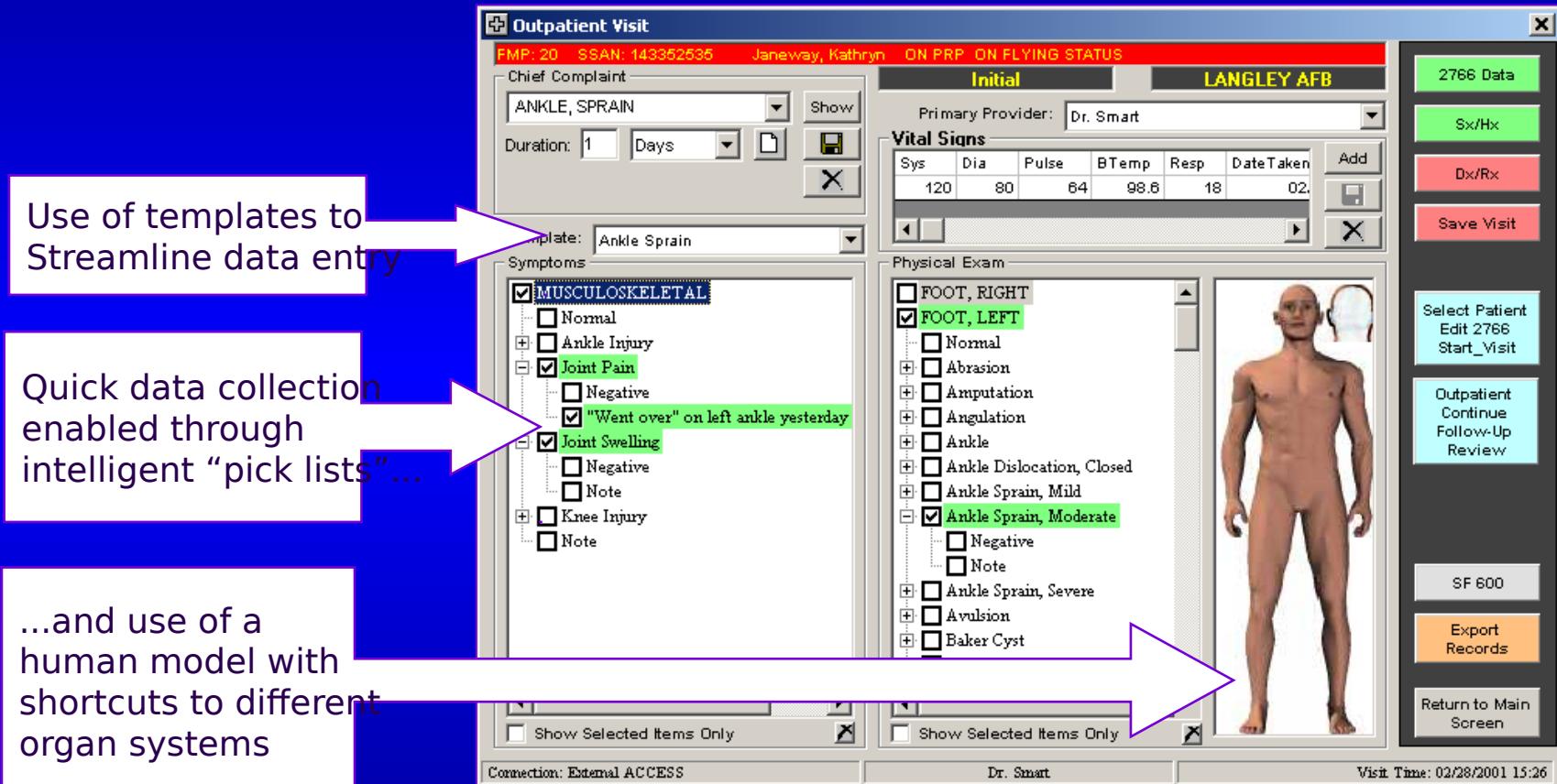
# *GEMS Components*

- ◆ Patient Encounter Module (PEM)



logical Module (TEM)  
Tactical Module (TOM)  
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Tactical Module (TOM)  
medics  
epidemiologists  
“Contingency focused”  
analyst tool  
environmental and  
occupational feature set  
• Advanced & dynamic  
and control patient  
GEMS Modules  
Surveillance  
- robust reports  
system

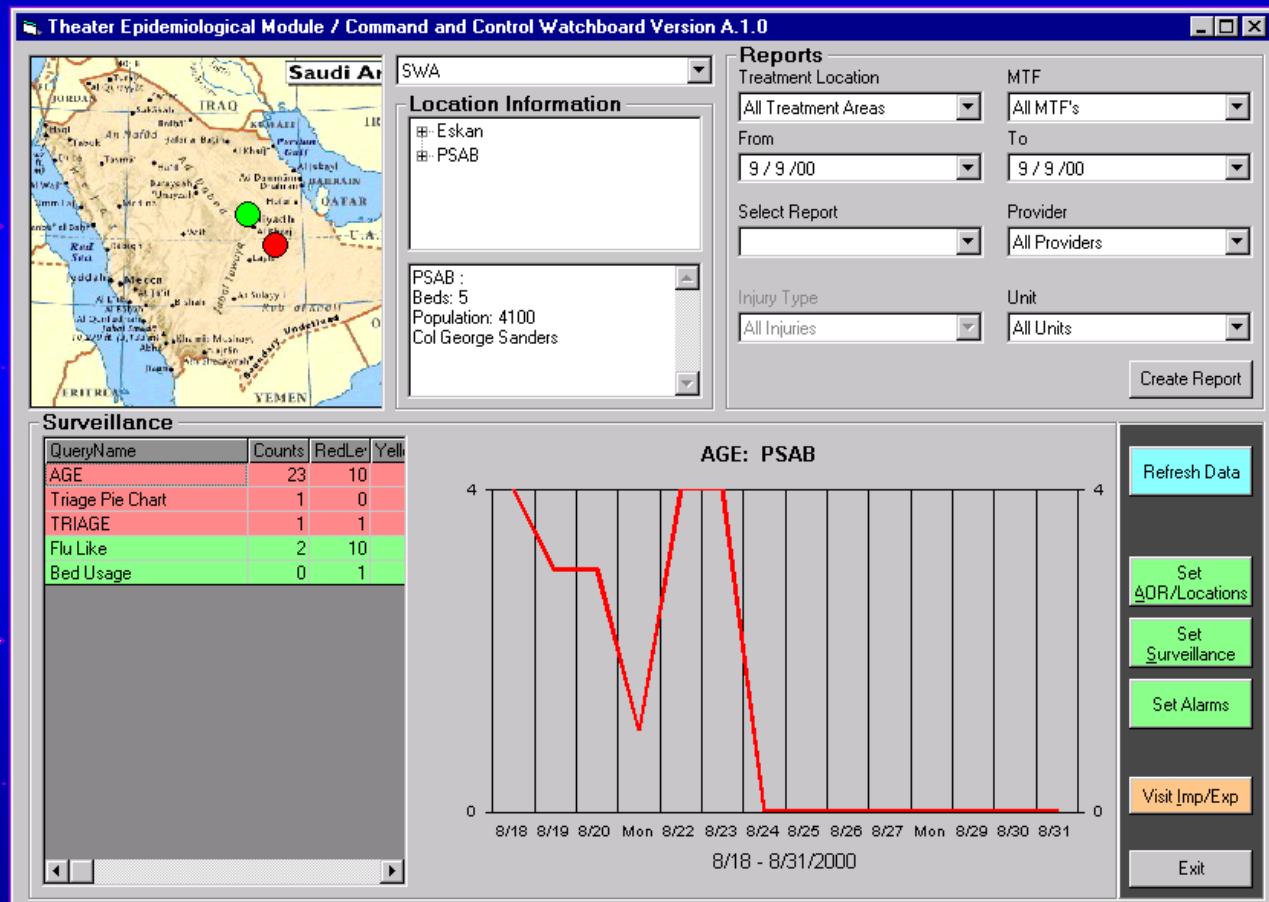
# Patient Encounter Module



- A working environment rich in visual representation of difficult to define concepts
- An intuitive user interface with an integrated tutor program and user prompts.
- An environment where the user can direct how much information they need to input or see based on level of knowledge, time, and mission constraints.

# Theater Epidemiological Module

Graphic modeling of data, enabling quick evaluation of threats and capabilities.



Multiple data-sets to choose from.  
End user defined warning levels tailored for varied mission requirements.

# TOM Feature Set

## Environmental

- Environmental Sampling
- Risk Assessment
- Hazardous Material Management

## Occupational Health

- Demographics
- Industrial Hygiene
- Environmental Health
- Risk Assessment

## Safety

- Injury and Illness
- Risk Assessment

**ENVIRONMENTAL SAMPLE RESULTS**

CREATE NEW BASE SAMPLE NO      COLLECTION METHOD      SAMPLE TYPE

BASE SAMPLE NO

\*SAMPLE PT      \*ORGANIZATION

SAMPLE  
 BASE SAMPLE NO

**AIR SAMPLING SURVEY**

CREATE NEW BASE SAMPLE NO      COLLECTION METHOD      SAMPLE TYPE

BASE SAMPLE NO      DATE/TIME OF SURVEY

TYPE OF SAMPLE      CONSECUTIVE SAMPLE NO

PEG CODE

ACTIVITY/PROCESS ID      ACTIVITY/PROCESS NAME

\*ACTIVITY/PROCESS DESCRIPTION

\*SAMPLE LOCATION      BUILDING NO

\*FUNCTIONAL AREA      \*HAZARD TYPE

**ACTIVITIES/PROCESSES PERFORMED AT TIME OF SURVEY**

ACTIVITY/PROCESS ID	ACTIVITY/PROCESS NAME	ACTIVITY/PROCESS DESCRIPTION

SUPERVISOR NAME      SUPERVISOR PHONE

SUPERVISOR FAX      REVIEW DATE      REVIEWER OFFICIAL

**INJURY/ILLNESS REPORTING (LOCATION INFORMATION)**

WAS PLACE OF ACCIDENT OR EXPOSURE ON EMPLOYER'S PREMISES

OCCURRED IN ASSIGNED WORK AREA

OFFICE SYMBOL ON INCIDENT VISIT DATE/CA2 DATE

INJURY/ILLNESS LOCATION

**IN DEVELOPMENT**

# *GEMS Status*

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- ◆ DT&E (All Modules)
  - ◆ Full CCS Integration - Aug 2001
- ◆ OT&E (PEM & TEM)
  - ◆ Exercise Testing
- ◆ DEPLOYED PEM & TEM(Version 1.2)
  - ◆ All EMEDS platforms
  - ◆ AFSOC deployments
  - ◆ Prince Sultan AB
  - ◆ Data Central -- Brooks AFB
- ◆ TOM
  - ◆ In Development



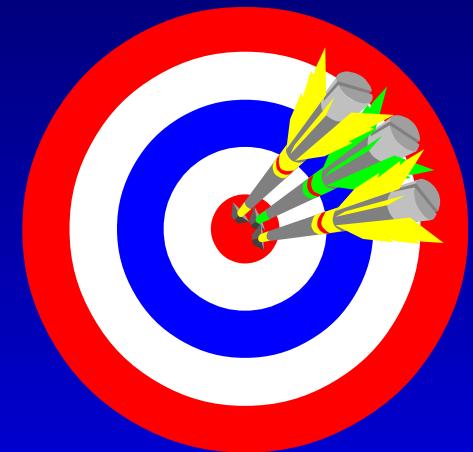
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# *Command Core Program*

- ◆ DESCRIPTION: -- The Command Core System (CCS) is a relational database system providing enterprise-wide USAF integration of medical, environmental, logistics, and safety information.
- ◆ OPR:
  - ◆ Goal Champion: Col Sprester (AFMOA)
  - ◆ Program Lead: Col Hamilton (HQ ACC/SGOP)
  - ◆ Program Manager: AFIERA/RS
- ◆ GOALS:
  - ◆ Enterprise-wide ESOH IM/IT
  - ◆ Support Informed ESOH decision-making at all levels of the enterprise

# *Command Core Vision*



- Field a World-Class Integrated Environment, Health, and Safety (EHS) System
  - Decrease Costs
  - Increase Productivity
- Improve Decision Making
- Facilitate Operational Risk Management

# *CCS Modular Functionality*

- ◆ Medical
  - ◆ Industrial Hygiene
  - ◆ Occupational Medicine/Public Health
- ◆ Environmental
  - ◆ Air Program Information Management
  - ◆ Waste Management
  - ◆ Pollution Prevention
  - ◆ Environmental Sampling
- ◆ Shared Functions
  - ◆ Employee (Demographics and Organizations)
  - ◆ Hazardous Material Management
  - ◆ Risk Management
  - ◆ Activity Definition
- ◆ Safety



Mod# 4101

# COMMAND CORE SYSTEM

## MAIN MENU

EMPLOYEE MENU

OMS/PUBLIC HEALTH MENU

POLLUTION PREVENTION MENU

SHARED FUNCTIONS MENU

INDUSTRIAL HYGIENE MENU

SAFETY MENU

MATERIAL MANAGEMENT MENU

WASTE MANAGEMENT MENU

AIR PROGRAM MANAGEMENT MENU

ENVIRONMENTAL SAMPLING MENU

PREVENTIVE HEALTH ASSESSMENT

PROGRAM ASSESSMENT

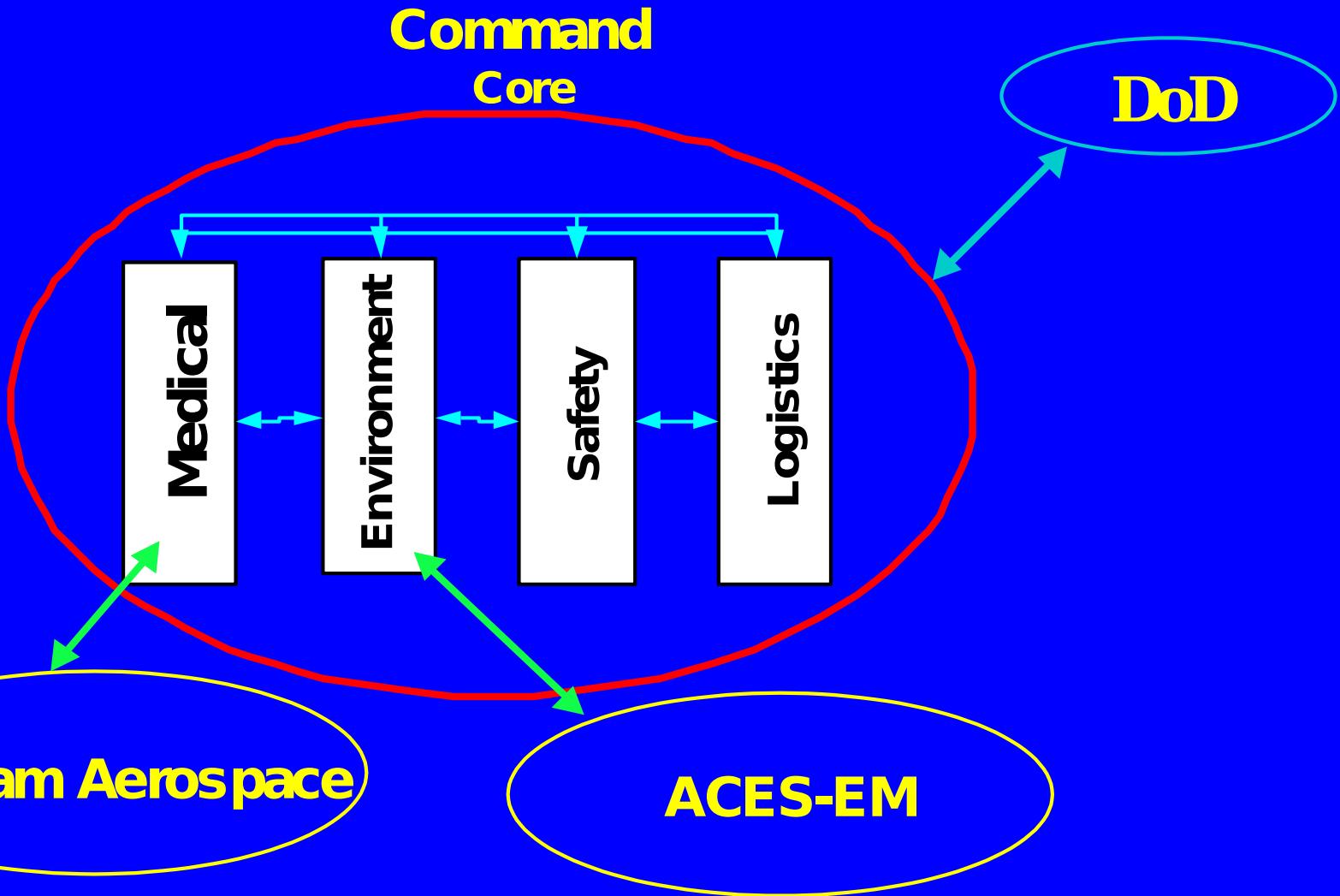
INTERFACES

PREFERENCES

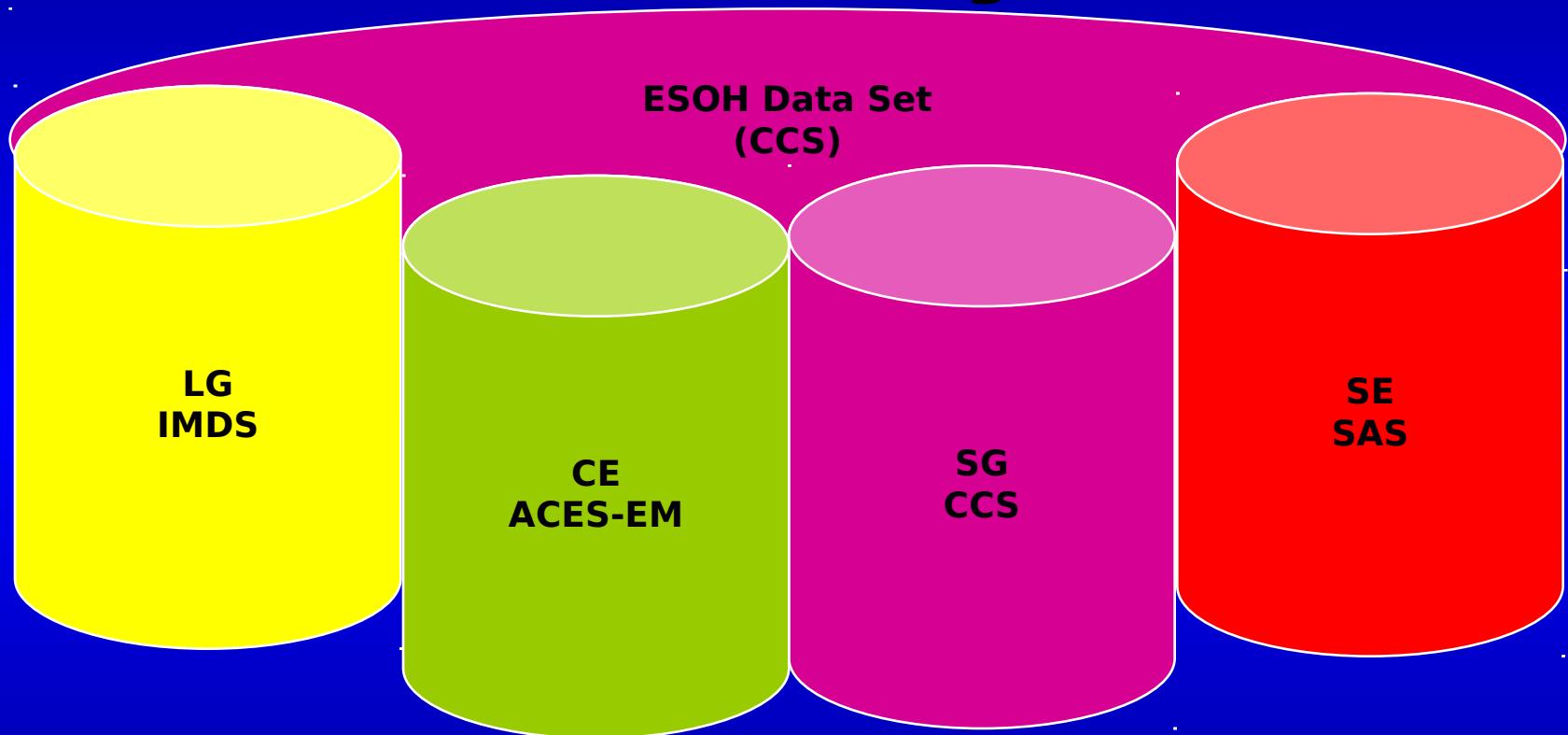
# *Operational Status*

- ◆ Deployed to 81 Fixed AF installations
- ◆ Operational at Deployed Site
- ◆ Mature system, Version 4.3

# CCS Operational Model



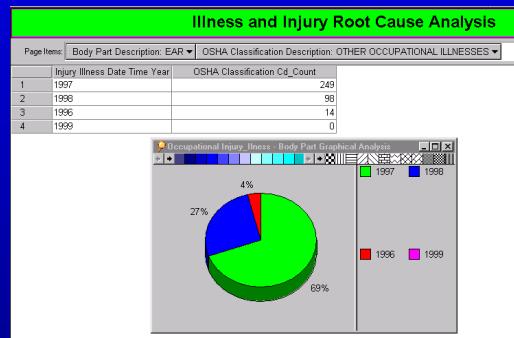
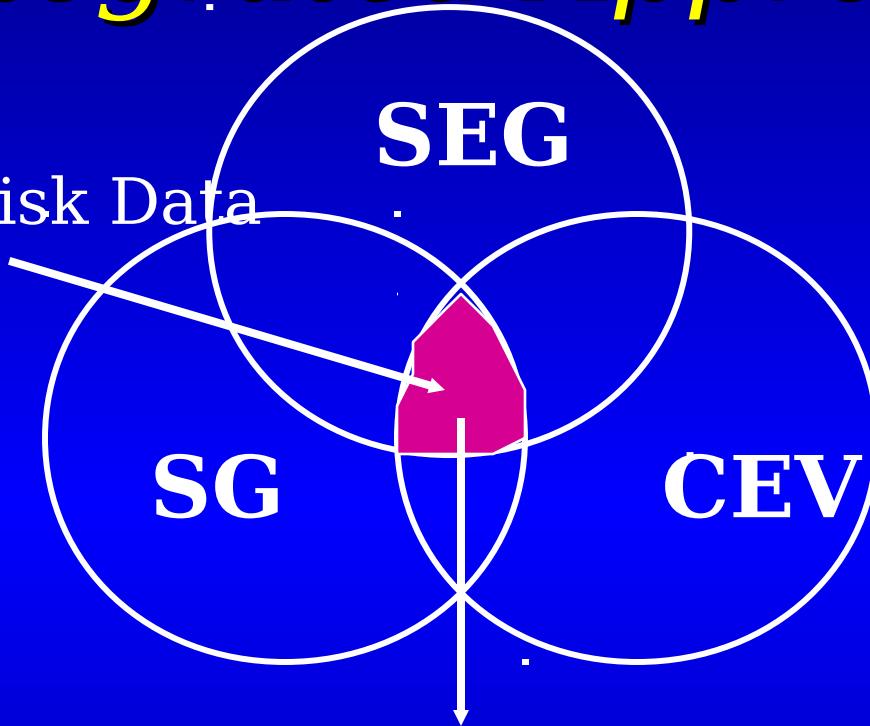
# *ESOH Players*



*SOH Migration Requires Data Sharing Across Functions*

# *Integrated Approach*

Integrated Risk Data



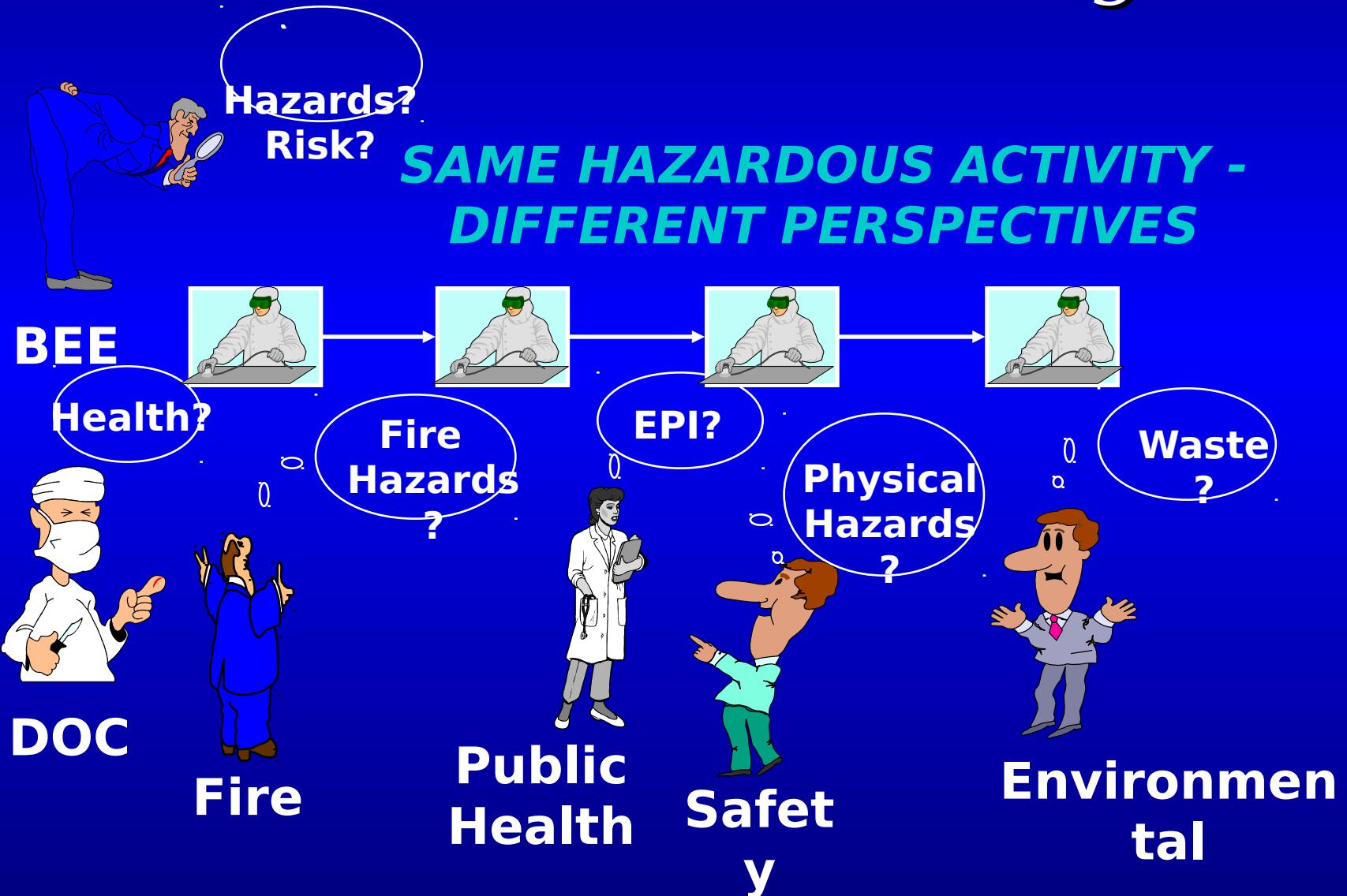
## Numerous Data Sources

- Compliance
- Health & Safety Reports - Hazard ID
- After Actions
- Etc...

## Customers at all levels

- 1 Key Report -- ORM Risk Foundation
- Impact to mission understood
- Begin ORM

# Common Data Sharing

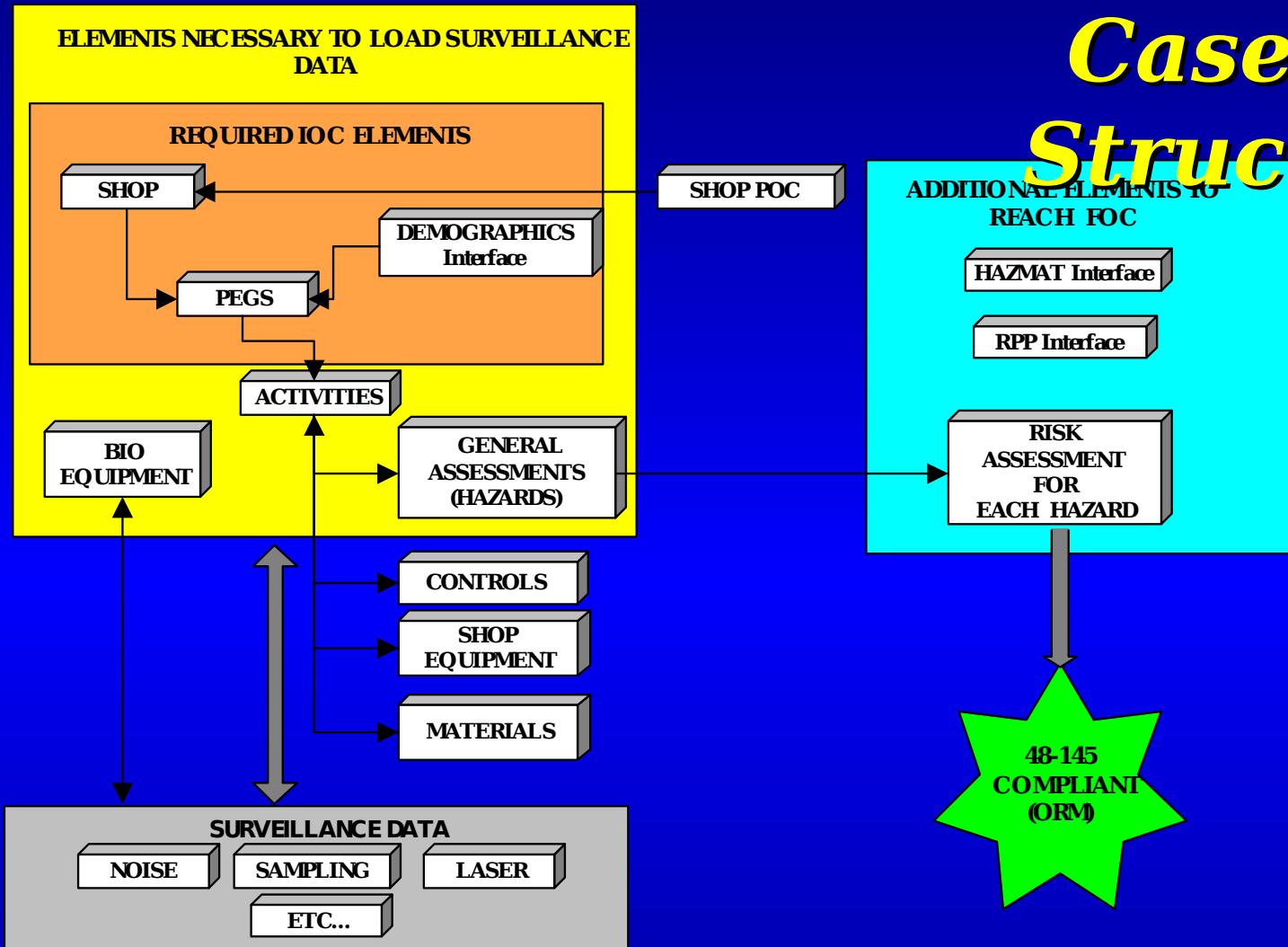


# *Activity-Based Philosophy General/Risk*

## *Assessments*

- General Assessment: Identify all potential risks/hazards across all functional areas
- Risk Assessment:
  - Evaluate each specific hazard separately
  - Assign level of risk to each hazard
  - Recommend multiple control measures for each risk/hazard
  - Allow control decisions to be made and track risk control implementation

# IH Electronic Casefile Structure

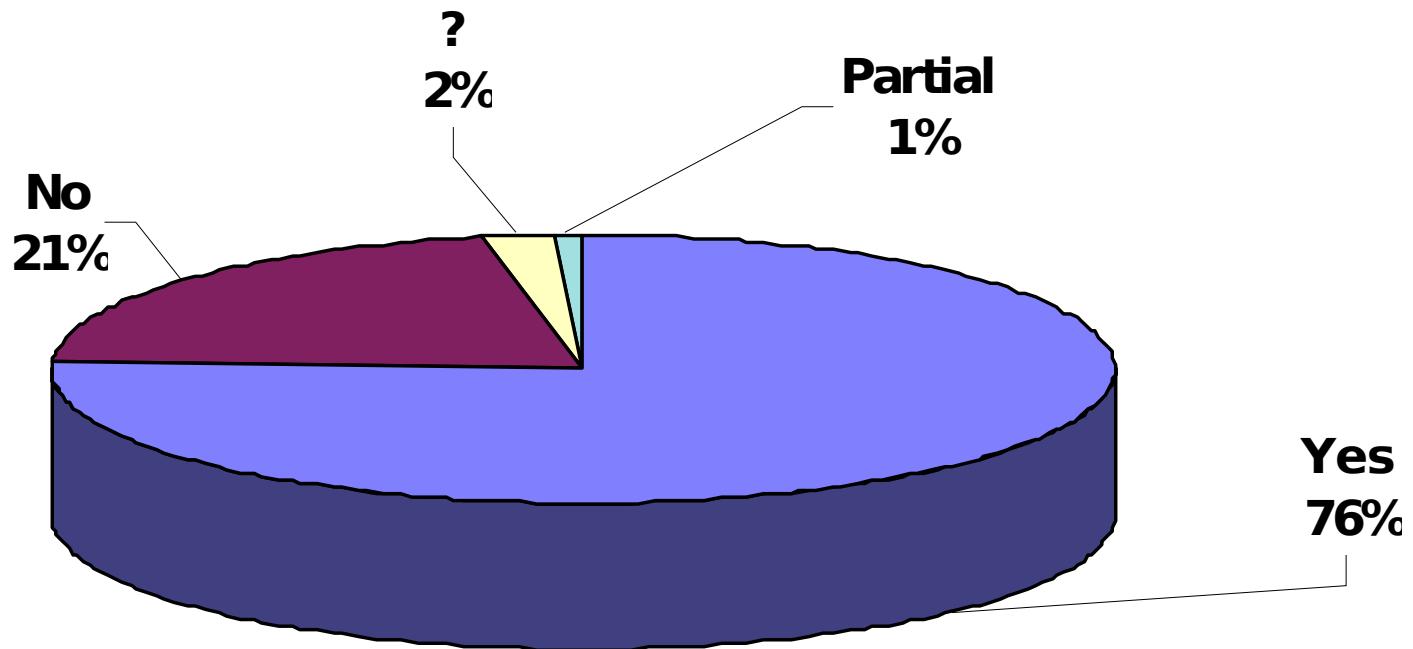


*Conduct CCS DEMO Here*

# *CCS vs DORHS Requirements*

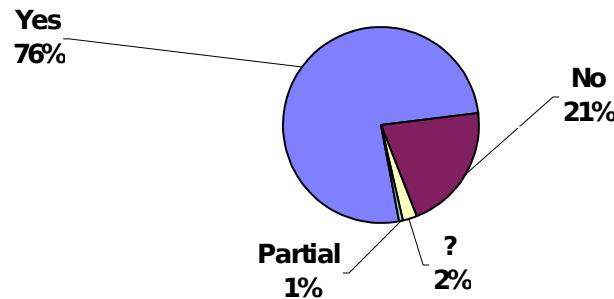
- ◆ TMIP
  - ◆ 76%
- ◆ Garrison
  - ◆ 85%

# *CCS TMIP Analysis*

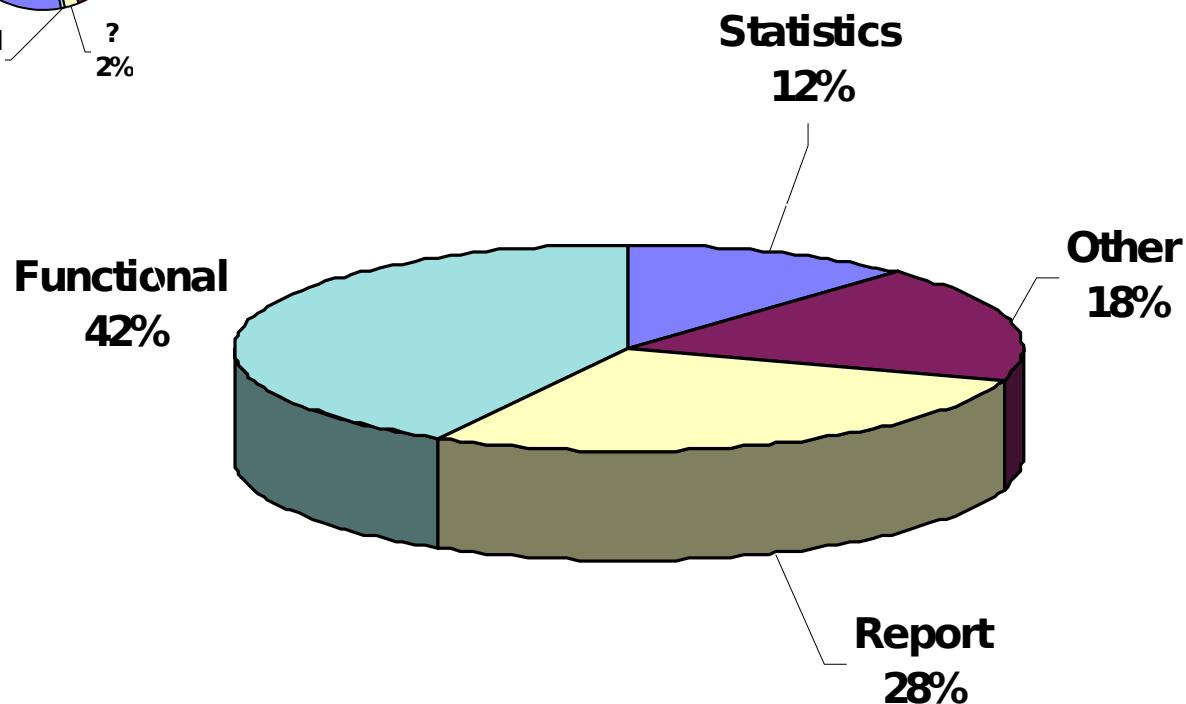


**Command Core Capability vs TMIP Requirements**

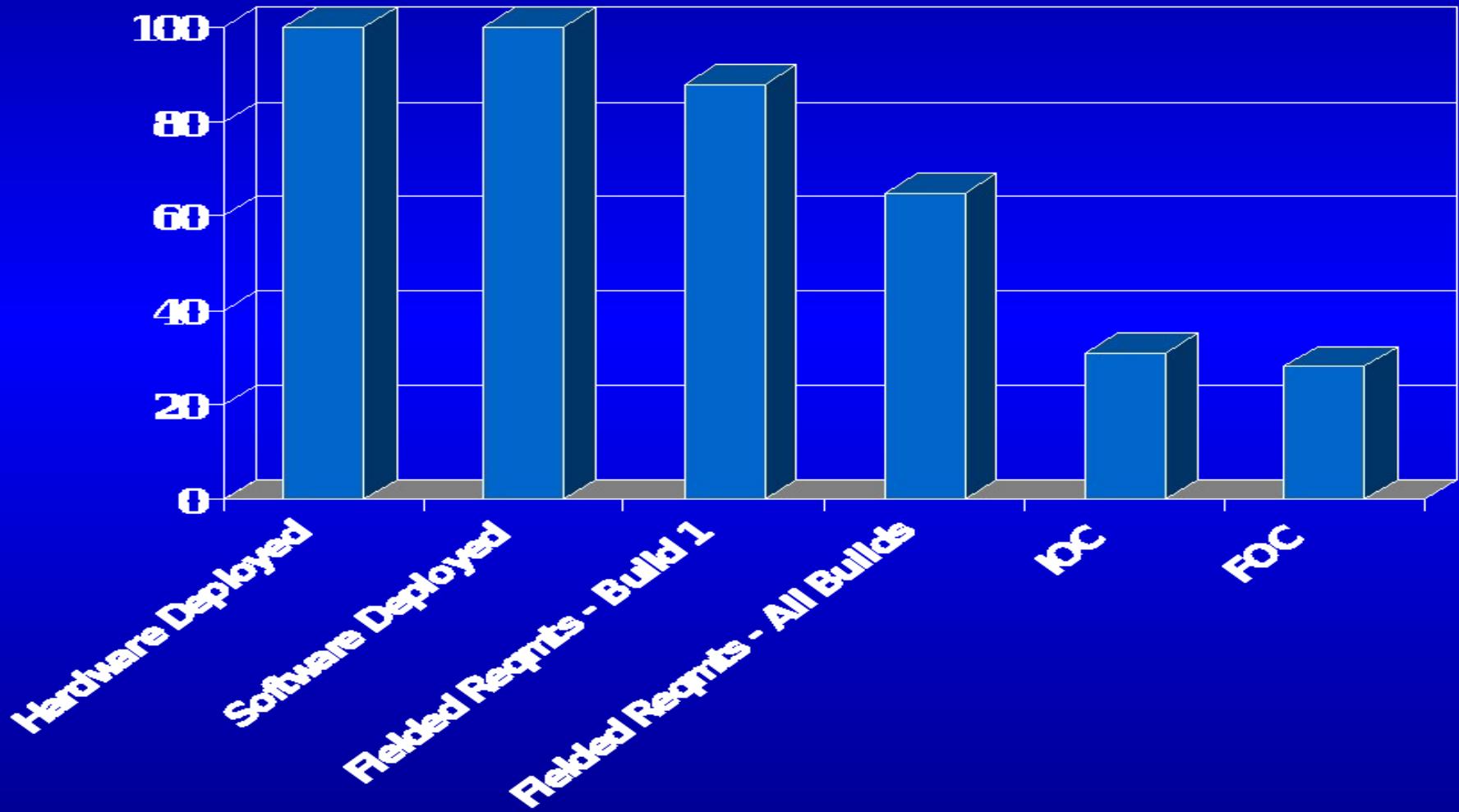
### Command Core Capability vs TMIP Requirements



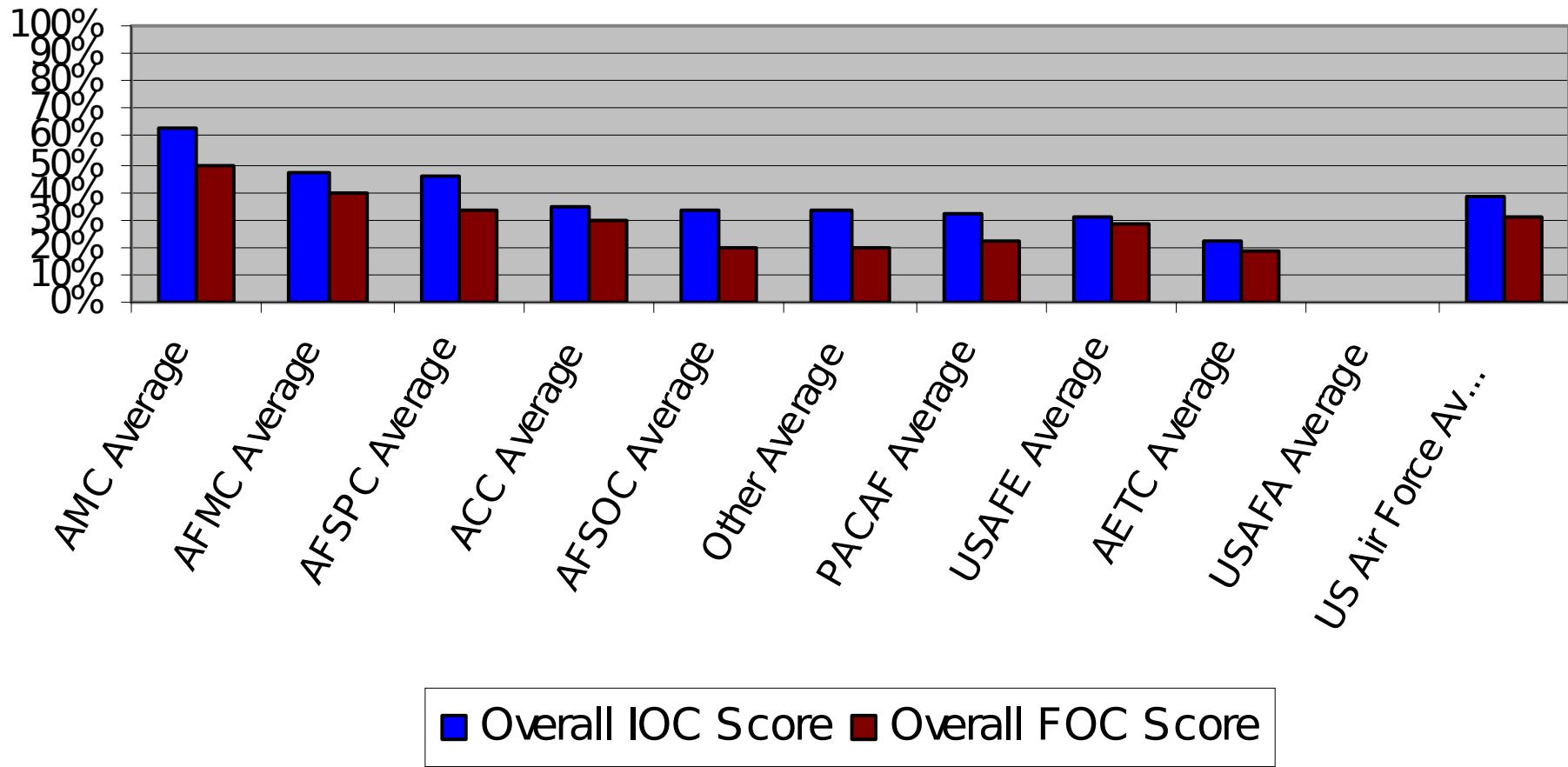
### Analyzed CCS Limitations



# USAF Implementation Metrics: DOHRS-IH



## USAF CCS Implementation Metrics



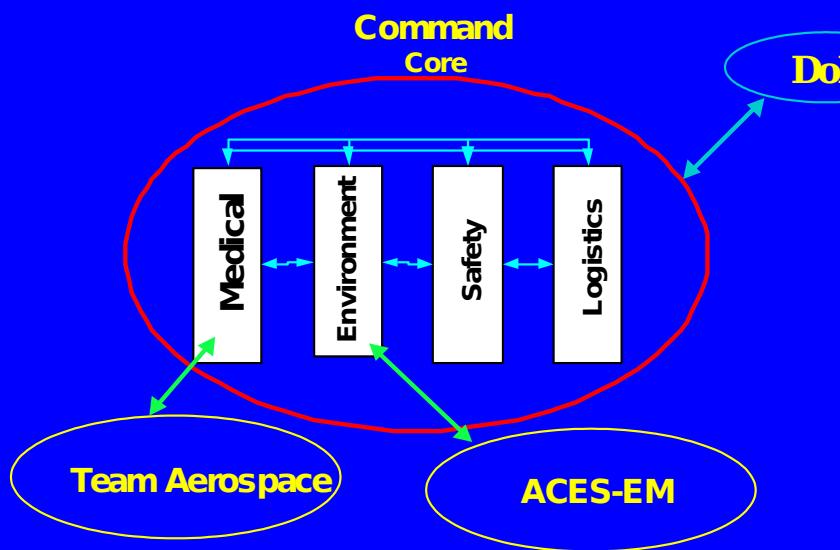
# Command Core System

**ESOH Data Integrator**  
**Medical**  
**Environmental**  
**Logistics**  
**Safety**

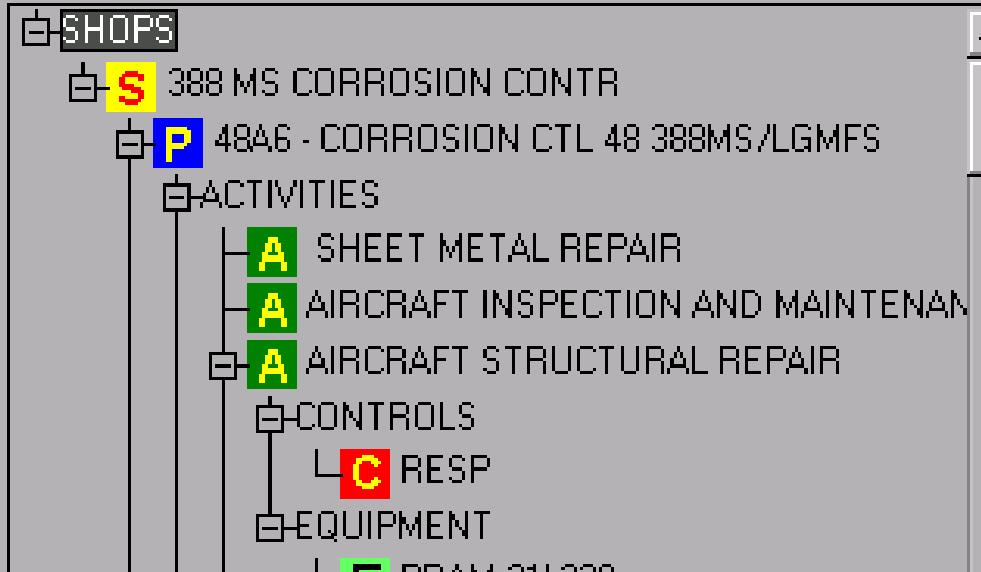
**TODAYS Casefile**

**Future -- CCS-Theater**

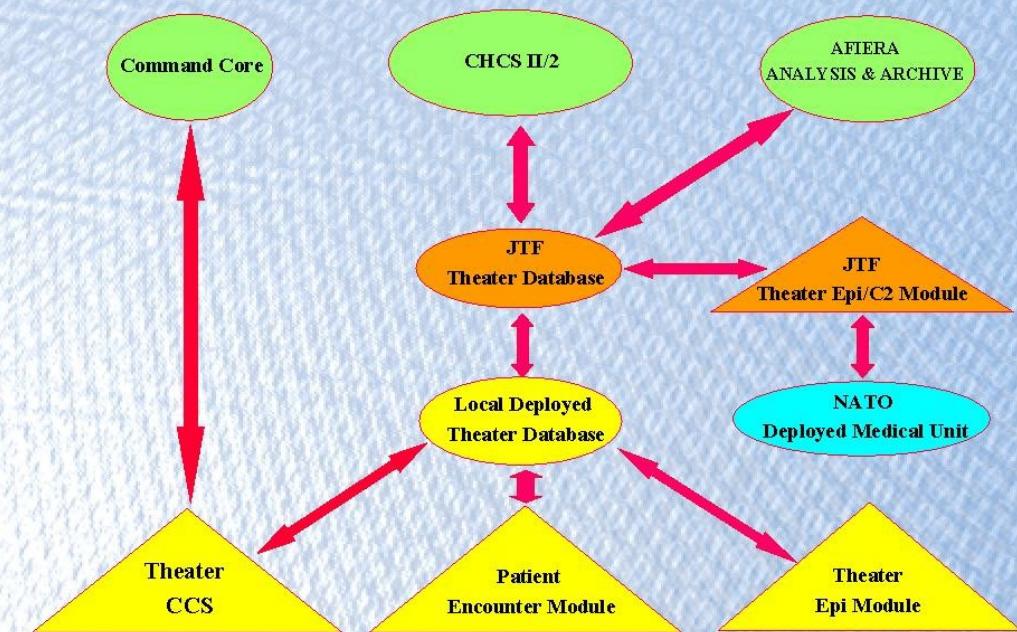
## CCS Operational Model



## MANAGEMENT VIEWS



## Global Expeditionary IM/IT



# *Summary*

- ◆ AF Team Aerospace
  - ◆ Full Spectrum IM/IT Solution
- ◆ CCS Fielded and Operational
- ◆ Meets Majority of Requirements
  - ◆ DORHS
  - ◆ TMIP
- ◆ ESOH Capable

# QUESTIONS?



**COMMAND CORE SYSTEM**  
*The Power of Information*